

*CLAIM AMENDMENTS*

Cancel claims 1-22.

Add the following claim:

23. (New) A method for fabricating an intravascular ultrasound transducer assembly comprising a flexible circuit, integrated circuitry, and a set of transducer elements, the method comprising the steps:

fabricating the flexible circuit comprising a flexible substrate and a set of electrically conductive lines formed on the flexible substrate;

fabricating a transducer sheet comprising a transducer material, a signal electrode and a ground electrode, wherein a first contact point on the signal electrode and a second contact point on the ground electrode for each transducer element are arranged upon substantially a same physical plane; and

attaching the transducer sheet to the flexible circuit while the flexible circuit is in a substantially flat shape such that the first contact point and second contact point connect to the electrically conductive lines on the flexible circuit.